

Raspberry Pi-4 Power-Hat Case Assembly with Axial Fan

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Pi-4 Case Assembly

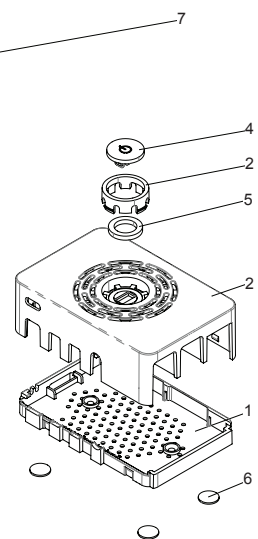
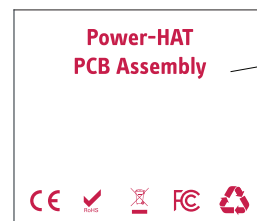
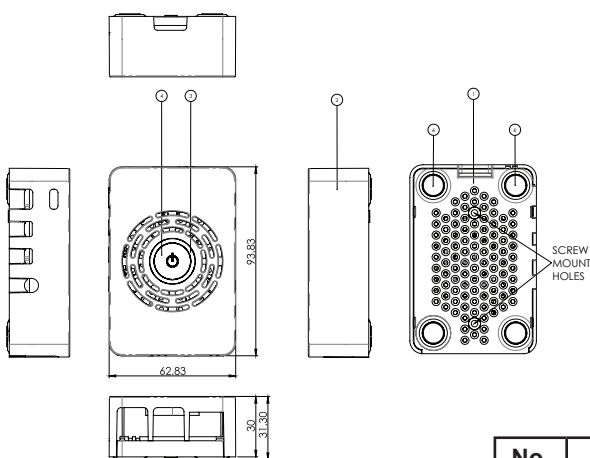
**RoHS
Compliant**



Contents Includes

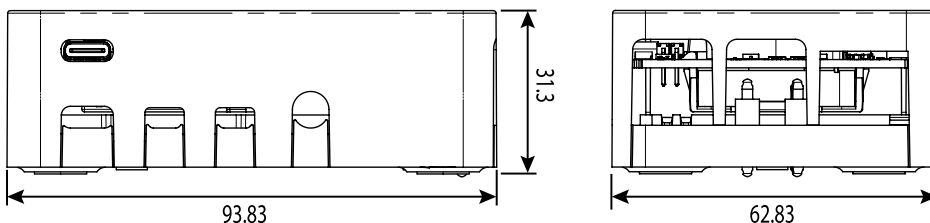
- Black ABS case
- Power-HAT PCB Assembly with Fan Bracket
- 30mm 5V DC fan – MP001243

Diagram



No.	Description	Qty.
1	Pi-4 Standard Base Moulding	1
2	Pi-4 Power Hat Upper Moulding	
3	Pi-4 LED Moulding	
4	Pi-4 Button Moulding	
5	Pi-4 Power Button Foam Pad	4
6	TECHNI-3 Foam Rubber Foot	
7	Power-Hat PCB Assembly INC Fan Bracket	1

Mechanical Dimensions

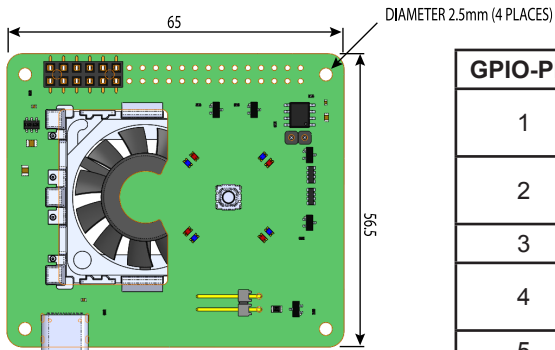


Dimensions : Millimetres

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GPIO-PIN	BCM-Name	Signal	Description
1	3.3V	Power	Used by Power-HAT to enable Green LEDs
2	5.0V	Power	Switched 5V power from Power-HAT to Pi
3	I2C_SDA	Not Used	
4	5.0V	Power	Switched 5V power from Power-HAT to Pi
5	I2C_SCL	Not Used	
6	GND	GND	
7	GPIO4	Not Used	
8	GPIO14	Fan Control	Set GPIO14 HIGH to enable fan
9	GND	GND	
10	GPIO15	IR Input	Optional IR receiver (Not Fitted)
11	GPIO17	Shutdown_Req	Signal from Power-HAT to Pi to request a shut-down.
12	GPIO18	Shutdown_Done	Signal from Pi to indicate shutdown has completed. The Power-HAT removes the power from the Pi once this signal is asserted.

Mechanics

Board Thickness	1.6mm
Overall Size	65mm × 56.5mm
Max. Fan size	30mm × 30mm × 6.9mm

Dimensions : Millimetres

30mm 5V DC Axial Fan



Mechanical Characteristic

Motor Design	: Single phase, 4-poles Brushless DC motor
Bearing System	: Vapo bearing system
Materials of Frame	: Thermoplastic PBT of UL 94V-0
Materials of Fan Blade	: Thermoplastic PBT of UL 94V-0
Direction of Rotation	: Counter-clockwise viewed from front of fan blade
Mounting Holes	: Diameter 3.2mm in 3 holes
Weight	: 6g

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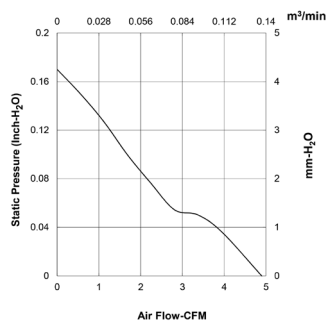
Electric Characteristic

Rated Voltage : 5V DC
 Rated Current : 112mA / Max. 124mA
 Rated Power Consumption : 0.56 Watts / Max. 0.62 Watts
 Safety Power Consumption : 0.72 Watts
 Operating Voltage Range : 2.5V DC to 6V DC
 Starting Voltage : 2.5V DC (25°C power On/Off)
 Operating Temperature Range : -10°C to +70°C
 Storage Temperature Range : -40°C to +70°C

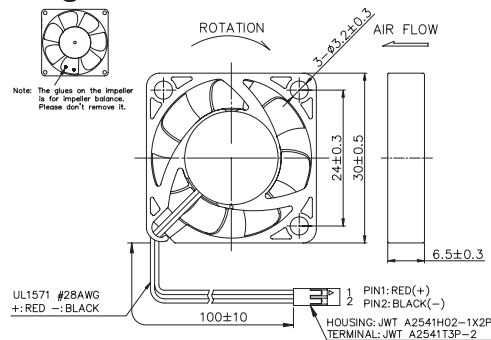
Performance Characteristic

Rated Speed : 9100 RPM \pm 15% at rated voltage
 Air Flow : 4.9 CFM
 Static Pressure : 0.17 Inch - H₂O / Min. 0.14 Inch - H₂O
 Acoustic Noise : 23.6dB(A) / Max. 28.3dB(A)
 Insulation Class : UL Class A
 Insulation Resistance : 10M Ω at 500V DC between internal stator and Lead wire (+)
 Plastic Housing : Applied AC 500V for one minute or AC 600V for 2 Seconds between housing and lead wire (+)
 Life Expectancy : 60,000 Hours at 40°C, 65% humidity, 90% CL
 Protection : Automatic Restart
 Note: The motor will shut down when rotor was locked, then auto restart within 10 seconds
 Polarity Protection

Performance Curves



Diagram



Dimensions : Millimetres

Part Number Table

Description	Part Number
Raspberry Pi-4 Power-HAT Case Assembly with Axial Fan	MP001926

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